AMENDMENTS TO THE CLAIMS

Docket No.: 020008.0112PTUS

- 1. (Currently Amended) A sub-atmospheric downstream pressure control apparatus, characterized by:
- a first flow restricting element (FRE), wherein said first FRE is an immobile flow restricting element;
- a pressure control chamber (PCC) located in serial fluidic communication downstream from said first FRE;
- a second FRE located in serial fluidic communication downstream from said PCC, wherein said second FRE is an immobile flow restricting element;
 - a gas source; and
- a flow controlling device in serial fluidic communication downstream from said gas source and upstream from said PCC.
- 2. (Previously presented) A sub-atmospheric downstream pressure control apparatus as in claim 1 further characterized by:
- a reactive gas source connected in serial fluidic communication upstream from said PCC; and
 - an abatement element located within said PCC.
- 3. (Previously presented) A sub-atmospheric downstream pressure control apparatus as in claim 1 further characterized by:
- a third FRE connected in serial fluidic communication downstream from said PCC; an abatement chamber connected in serial fluidic communication upstream from said third FRE;
- a reactive gas source connected in serial fluidic communication upstream from said abatement chamber; and
 - an abatement element disposed within said abatement chamber.

4. (Previously presented) A sub-atmospheric downstream pressure control apparatus as in claim 1 wherein a process chamber is located in serial fluidic communication upstream from said first FRE;

said process chamber and said PCC are formed as compartments within a single process vessel; and

said first FRE is formed within the partition between said process chamber and said PCC.

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5. (Currently amended) A wafer processing apparatus comprising a process chamber, said apparatus characterized by:

a process reactive gas supply line from a process gas source in serial fluidic communication upstream from said process chamber;

an upstream flow control device located in serial fluidic communication upstream from said process chamber and downstream from said process gas source;

a first flow restricting element located in serial fluidic communication downstream from said process chamber, wherein said first FRE is an immobile flow restricting element;

a pressure control chamber (PCC) located in serial fluidic communication downstream from said first FRE;

a second FRE located in serial fluidic communication downstream from said PCC, wherein said second FRE is an immobile flow restricting element;

a gas source; and

a flow controlling device in serial fluidic communication downstream from said gas source and upstream from said PCC.

6. (Previously presented) A sub-atmospheric downstream pressure control apparatus as in claim 5 further characterized by:

a reactive gas source connected in serial fluidic communication upstream from said PCC; and

an abatement element located within said PCC.

7. (Previously presented) A sub-atmospheric downstream pressure control apparatus as in claim 5 further characterized by:

a third FRE connected in serial fluidic communication downstream from said PCC; an abatement chamber connected in serial fluidic communication upstream from said third FRE;

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a reactive gas source connected in serial fluidic communication upstream from said abatement chamber; and

an abatement element located within said abatement chamber.

8. (Previously presented) A sub-atmospheric downstream pressure control apparatus as in claim 5 wherein a process chamber is located in serial fluidic communication upstream from said first FRE;

said process chamber and said PCC are formed as compartments within a single process vessel; and

said first FRE is formed within the partition between said process chamber and said PCC.

- 9. (Original) A sub-atmospheric downstream pressure control apparatus as in claim 5 wherein said process is LPCVD.
- 10. (Original) A sub-atmospheric downstream pressure control apparatus as in claim 5 wherein said process is RIE.
- 11. (Original) A sub-atmospheric downstream pressure control apparatus as in claim 5 wherein said process is PECVD.

Claims 12 - 15 (Withdrawn)

Application No. 10/563,519 Supplemental Amendment dated October 27, 2008 After Final Office Action of June 5, 2008 Docket No.: 020008.0112PTUS

- 16. (Currently amended) A sub-atmospheric downstream pressure control apparatus comprising:
- (a) a first flow restricting element (FRE), wherein said first FRE is an immobile flow restricting element;
- (b) a pressure control chamber (PCC) located in serial fluidic communication downstream from said first FRE;
- (c) a second FRE located in serial fluidic communication downstream from said PCC, wherein said second FRE is an immobile flow restricting element;
 - (d) a gas source (208);
- (e) a flow controlling device in serial fluidic communication downstream from said gas source and upstream from said PCC;
- (f) a reactive gas source connected in serial fluidic communication upstream from said PCC; and
 - (g) an abatement element located within said PCC.